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«MACHINOEXPORT»

CATALOGUE OF Э-255 EXCAVATOR REPAIR PARTS



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50X1-HUM

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PREFACE

This Catalogue includes the Specifications and a brief description of the 9-255 Excavator, as well as drawings of its main units and sketches of parts subjected to wear.

Refer to this Catalogue when drawing up a list of spare parts required for replacement during general overhaul and maintenance operations.

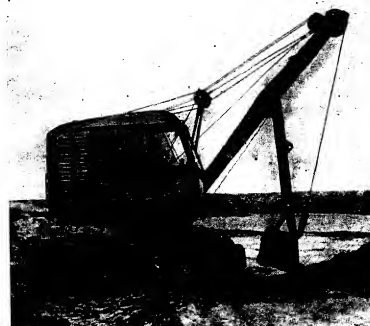
The specified therein data on the amount of the parts required per unit, and for the Excavator on the whole, as well as those concerning weight and material of the part in question, will allow to account the quantity of material needed for their production at User's repair shops.

The grades of steel shown in the Catalogue are in conformance with All-Union Standards (GOST), except for steel 30 ГЛ (Plant specification).

The Catalogue may be used likewise as a handbook to be referred to when some of the parts are disassembled in warehouse conditions, and also for acquainting oneself with the design of individual units and repair parts.

BRIEF DESCRIPTION OF THE 9-255 EXCAVATOR

The 9-255 Excavator is intended for various earthwork, construction and mounting operations, as well as for handling jobs performed in municipal, industrial, and road building.



General view of the Excavator

The Excavator may be equipped with a no-crowd straight shovel, a back shovel, a clamshell, and a crane, the latter having either an 8 m boom (for handling operations on loads up to 5 tons), a boom of 12, 15 or 18 m (for construction and mounting operations on loads up to 2 tons), or, finally, an 18 m boom fitted with a gooseneck (for construction and mounting operations on loads up to 1 ton).

The Excavator consists of a turntable with the power unit, mechanisms and cab, further on, of a track frame unit, and a set of changeable working equipment.

On the turntable are installed: an engine with drive mechanisms, the main transmission shaft with reversing device, main winch, boom luffing winch, swinging mechanism, and the track frame unit transmiss-

ion. The control panel is situated on the right front part of the turntable. The track frame assembly of the Excavator consists of a special two-axle bogie on pneumatic tyres driven by a Д-54 Diesel engine, placed on the turntable.

The construction of the Excavator comprises the rear axle of the ЯА3-200 automobile, and a special drive front axle. The axle is driven by the bottom transmission through propeller shafts. The rear axle is rigidly fastened to the frame, while the front axle is suspended on springs.

The Excavator has two turntable swinging speeds and four front and back travelling speeds. All shafts rest in rolling friction bearings. The gear transmissions are enclosed in housings.

The main winch drum clutches are engaged by friction plates. The main winch brakes are of the open type. Loads are lowered either on engaged brakes or with engine operating.

All mechanisms of the Excavator turntable are controlled by levers. Hydraulic control is used for the front and rear wheel brakes, and the power train; the steering control of the front wheels and shifting of the track frame bottom transmission gears are likewise of the hydraulic type.

The operating diagram of the Excavator mechanisms provides for either of above operations to be combined, except for travelling with simultaneous swinging of turntable.

SPECIFICATIONS

General Data

Excavator travelling speed, <i>km per hr</i>	1.3—14.1	Minimum turning radius, <i>mm</i>	8200
Tread, <i>mm</i> :		Number of cuts per min	4
front wheels	1950	Radius of arc performed by the tail end of the cab, <i>mm</i>	2150
rear wheels	1920		
Excavator wheelbase, <i>mm</i>	2800	Overall dimensions, <i>mm</i> :	
Engine:		length	4100
type	Д-54	width	2700
power output, <i>k.p.</i>	54	height	3500
speed, <i>r. p. m.</i>	1300	Weight (equipped with a straight shovel), <i>tons</i>	12.5
Maximum rising gradient during highway travel, degrees	20		

Working Equipment

Straight Shovel		Maximum cutting depth at 45° boom incline, <i>m</i> :	
Bucket capacity, <i>cu. m</i>	0.25	for ditches	4.0
Length, <i>m</i> :		for pits	2.6
boom	4.5	Boom incline	
dipper stick	2.35	45°	60°
Boom incline		Dumping radius, <i>m</i> :	
45°	60°	initial	4.32 3.95
Maximum radius, <i>m</i> :		final	6.29 5.24
dumping	5.25 4.76	Radius of dumping into vehicles, <i>m</i>	1.91 2.65
cutting	5.87 5.37	Dragline	
Maximum dumping height, <i>m</i>	3.31 4.26	Bucket capacity, <i>cu. m</i>	0.35
		Boom length, <i>m</i>	8
		Boom incline	
		30°	45°
Back Shovel		Maximum radius, <i>m</i> :	
Bucket capacity, <i>cu. m</i>	0.25	dumping	7.8 6.5
Length, <i>m</i> :		cutting	9.2 8.4
boom	4.5	Maximum dumping height, <i>m</i>	2.8 4.5
dipper stick	2.35	Cutting depth during side travel, <i>m</i>	3.6 3.0

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Crane

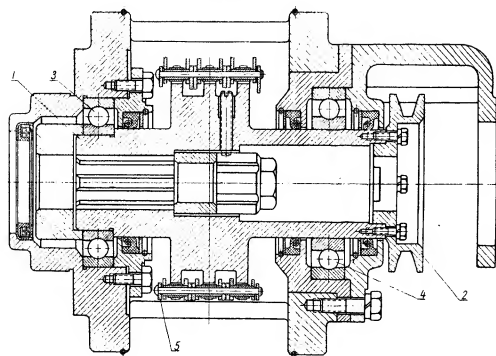
Boom length, <i>m</i>	Clearance radius, <i>m</i>	Hoisted load, <i>tons</i>	Maximum hook hoisting height, <i>m</i>	Boom length, <i>m</i>	Clearance radius, <i>m</i>	Hoisted load, <i>tons</i>	Maximum hook hoisting height, <i>m</i>
8	3	5	7.2	18	4.5	2	16.5
	8	1.4	3.6		17	0.25	8
12	3.2	4	10.5	18 with a 5 <i>m</i> gooseneck	8	1	20
	11.6	0.8	4.8		14	0.35	17
15	4	3	13.7				
	14.3	0.5	6.5				

Clamshell

Boom length, <i>m</i>	8 and 12
Bucket capacity, <i>cu. m</i>	0.35
Clearance radius range, <i>m</i>	4.8 — 7.6
Maximum dumping height, <i>m</i>	9.5

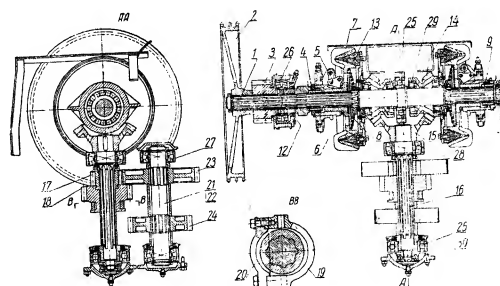
**REPAIR
PARTS**

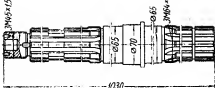
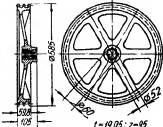
Unit 0202-00. Drive



Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material grade
				unit	machine		
1	0202-02	Drive sprocket		1	1	7.5	Steel, 45
2	0202-04	Drive sheave		1	1	1.7	Gray cast iron, 15-32
3	No. 214	Ball bearing	—	1	1	1.04	
4	No. 216	Ball bearing	—	1	1	1.38	
5	—	Three-row Gall's chain, t=19.05, 132 links	—	1	1		

Unit 0300-00. Reversing Gear



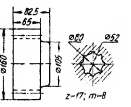

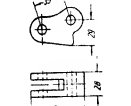
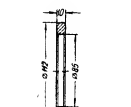
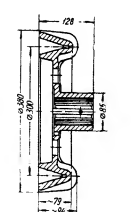
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per machine		Part weight, kg	Material grade
				unit	machine		
1	0301-01* 0301E-01**	Horizontal shaft		1	1	22.3	Steel, 40X
2	0301-02A* 0301E-02**	Three-row sprocket		1	1	29.3	Steel, 30ЛД

* Installed on Excavators from No. 1 to No. 474 inclusive
** Installed on Excavators from No. 475 onward

* Installed on Excavators from No. 1 to No. 47.
** Installed on Excavators from No. 475 onward.

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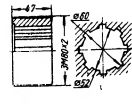
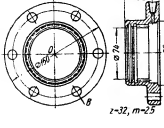
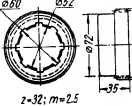

3-255 Excavator

Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material grade
				unit	machine		
3	0301-03* 0301B-03**	Pinion gear		1	1	8.3	Steel 40X
4	0301-09* 0301B-09**	Left coupling		1	1	0.15	Steel 45
5	0301-15	Clutch pawl		6	9	0.35	Steel 45
6	0301-20	Crowd ring		2	3	0.35	Steel 15X
7	0301-21** 0301-37***	Clutch		2	3	26.2	Steel 30T.71

* Installed on Excavators from No. 91 to 474 inclusive
 ** Installed on Excavators from No. 475 onward
 *** The old and new numbers shown are interchangeable

Unit 0300-00. Reversing Gear

13

Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material grade
				unit	machine		
8	0301-22	Release spring		2	3	1.65	Steel 65T
9	0301-27* 0301B-27**	Right coupling		1	2	0.92	Steel 45
10	0301-31	Gear semi-coupling		1	1	2.4	Steel 5
11	0301-32	Gear sleeve		1	1	0.62	Steel 5
12	0301-38	Lock spring		1	6	0.021	II-11

* Installed on Excavators from No. 1 to No. 474 inclusive
 ** Installed on Excavators from No. 475 onward

Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material grade
				unit	machine		
13	3KC-166	Clutch shoe		8	12	0.78	Plastic, KΦ-3M
14	03011-00A* 03011B-00**	Bevel gear		2	2	14.0	Steel, 40X
15	0302-01	Bevel gear		1	1	8.6	Steel, 40X
16	0302-02	Vertical shaft		1	1	10.2	Steel, 40X

* Installed on Excavators from No. 1 to No. 474 inclusive
** Installed on Excavators from No. 475 onward

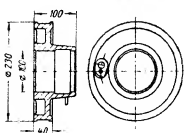
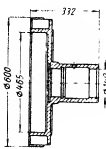
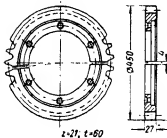
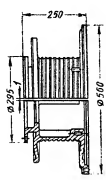
* Installed on Excavators from No. 475 onward

Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material grade
				unit	machine		
17	0302-03	Pinion gear		1	1	2.3	Steel, 40X
18	0302-04	Pinion gear		1	1	9.6	Steel, 40X
19	0302-05	Switching collar		1	1	0.85	Bronze, AK 5-4
20	0302-06	Switching clamp		1	1	0.46	Bronze, AK 5-4

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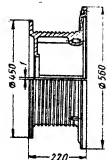
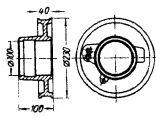
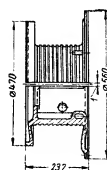
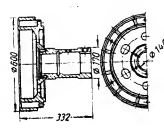
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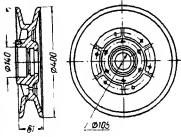
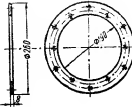
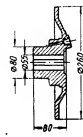
3-255 Excavator

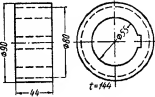
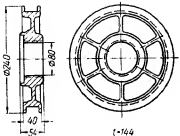
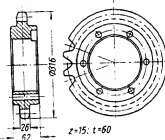

Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material grade
				unit	machine		
4	0501A-09	Left sheave		1	1	5.9	Steel, 30F71
5	0501-11	Right friction drum		1	1	54.25	Steel, 30F71
6	0501-22A	Sprocket		1	1	15.0	Steel, 30F71
7	0501-24	Crane drum		1	1	51.7	Steel, 30F71

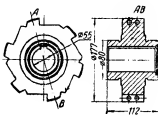
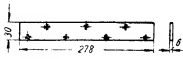
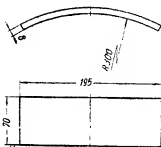
Unit 0500-00. Main Winch

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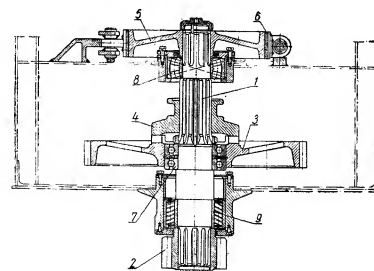
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material grade
				unit	machine		
8	0501-27	Straight drum shovel		1	1	47.8	Steel, 30F71
9	0501A-28	Right sheave		1	1	5.9	Steel, 30F71
10	0501-39	Dragline drum		1	1	51.2	Steel, 30F71
11	05013-01	Left friction drum		1	1	54.25	Steel, 30F71

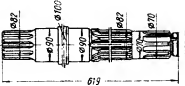
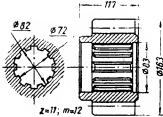
3-255 Excavator						
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Material grade
				unit	machine	
12	0502-10	Spring, coil		2	3	0.5 П-11
13	0502-15	Spring, coil		2	3	0.08 П-11
14	0506-01A	Drum		1	1	4.81 AЛ-2
15	0506-02	Gasket		1	1	0.31 Plastics, KΦ-3M
16	0506-03	Drive plate		1	1	5.67 Steel, 25Л 111

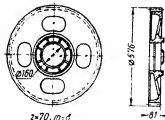
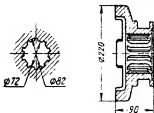
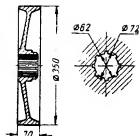
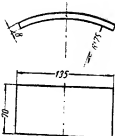
Unit 0500-00. Main Winch						
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Material grade
				unit	machine	
17	0506-04	Idler sheave		1	1	0.95 Steel, 5
18	0506-05	Sheave		1	1	5.46 Gray cast iron, 21-40
19	0508-01	Single-row sprocket		1	1	13.1 Steel, 40X
20	0508-04	Ratchet roller		6	6	0.07 Steel, 40X

Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material grade
				unit	machine		
21	0508-09	Winch ratchet		1	1	6.38	Steel, 40X
22	0301-38	Lock spring	See unit 0300-00, item 12	4	6	0.021	П-11
23	05071-02	Belt gasket		2	4	0.12	Ferodo
24	04051-01	Belt gasket	See unit 0400-00, item 13	4	4	0.157	Plastics, KΦ-3M
25	ЭКC-168-2	Brake band lining		16	16	0.21	Plastics, KΦ-3M
26	ЭКC-169	Friction band lining	See unit 0400-00, item 15	16	24	0.157	Plastics, KΦ-3M
27	No. 216	Ball bearing 80 × ×140 ×25	—	9		1.38	
28	No. 316	Ball bearing 80 × ×170 ×39	—	2	2	3.6	

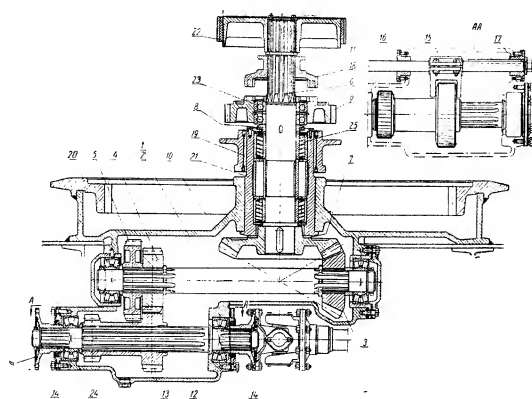
Unit 0600-00. Swinging Mechanism



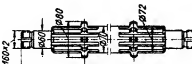
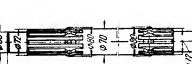
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per machine		Part weight, kg	Material grade
				unit	machine		
1	0601-01	Shaft		1	1	26.04	Steel, 40X
2	0601-02	Cylindrical gear-wheel		1	1	7.89	Steel, 40X

Item number on drawing	Part No.	Part name	Sketch of part	Quantity per unit machine	Part weight, kg	Material grade
3	000-11	Cylindrical gear-wheel		1	40.6	Steel, 30Г1
4	000-12	Pawl coupling		1	6.91	Steel, 30Г1
5	000-13	Brake sheave		1	15.13	Steel, 35Г 111
6	3KC-168-3	Brake band lining		5	0.13	Plastics, F0-3M
7	No. 218	Ball bearing 90 × × 100 × 30	—	2	4	2.2
8	No. 3614	Spherical roller bearing 70 × 150 × × 51	—	1		4.4
9	No. 5218	Roller bearing with twisted rollers 90 × 160 × 70	—	1	3	7.3

Unit 0700-00. Power Train



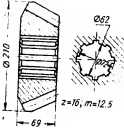
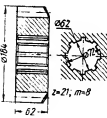
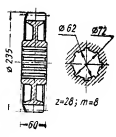
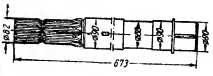
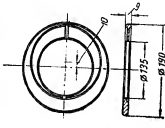
a Front propeller shaft removed

Item number on drawing	Part No.	Part name	Sketch of part	Quantity per unit machine	Part weight, kg	Material grade	
1	0701-01A*	Top horizontal shaft		1	1	23.3	Steel, 40X
2	0701-01B**	Top horizontal shaft		1	1	23.3	Steel, 40X

* Installed on Excavators from No. 1 to No. 260 inclusive
 ** Installed on Excavators from No. 261 onward

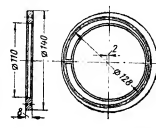
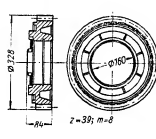
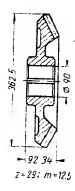
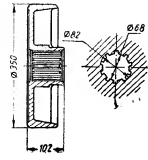
80

3-255 Excavator

Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material grade
				unit	machine		
3	0701-02A	Bevel gear		1	1	12.8	Steel, 40X
1	0701-03A	Cylindrical gear-wheel		1	1	8.78	Steel, 40X
5	0701-01	Cylindrical gear-wheel		1	1	10.78	Steel, 40X
6	0702-01	Vertical shaft		1	1	26.95	Steel, 40X
7	0702-02	Bottom thrust ring		1	1	1.12	Bronze, АЖ 9-4

Unit 0700-00. Power Train

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Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material grade
				unit	machine		
8	0702-09	Top thrust ring		1	1	0.518	Bronze, АЖ 9-4
9	0702-12	Cylindrical gear-wheel		1	1	18.5	Steel, 30TJ1
10	0702-15	Bevel gear		1	1	28.5	Steel, 40X
11	0702-16	Brake sheave		1	1	18.7	Gray cast iron, 21-40

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3-255 Excavator

Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material grade
				unit	machine		
12	0703-01	Bottom horizontal shaft		1	1	25.6	Steel, 40X
13	0703-02	Cluster gear		1	1	14.0	Steel, 40X
14	0703-09	Propeller shaft flange		2	4	2.7	Steel, 45
15	0704-01A	Shift yoke		1	1	1.75	Steel, 25/T 111
16	0704-03	Front sleeve		1	1	0.86	Bronze, AK 9-4

Unit 0700-00, Power Train

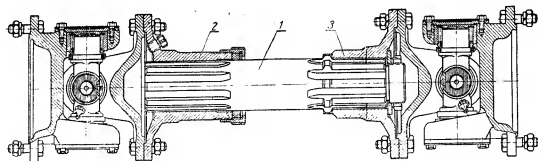
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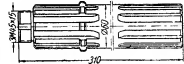
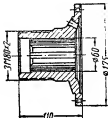
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material grade
				unit	machine		
17	0704-04	Rear sleeve		1	1	0.85	Bronze, AK 9-4
18	0601-12	Pawl coupling	See unit 0600-00, item 4	1	2	6.91	Steel, 30/T
19	1100-02	Journal sleeve		1	1	4.7	Bronze, AK 9-4
20	5500-08	Crown ring		1	1	200.0	Steel, 30/T
21	5500-09	Power train journal		1	1	31.0	Steel, 30/T
22	ЭКС-106-3	Brake band lining	See unit 0600-00, item 6	8	16	0.13	Plastics, КФ-3М
23	No. 218	Ball bearing 50 x 100 x 30	—	2	—	2.2	—
24	No. 3612	Spherical roller bearing 60 x 130 x 46	—	4	—	3.0	—
25	No. 3218	Roller bearing with twisted rollers 50 x 160 x 70	—	2	—	7.3	—

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9-255 Excavator

Unit 0705-00. Rear Propeller Shaft Assy

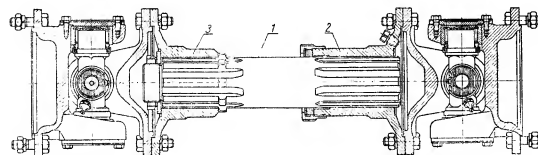



Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	0705-01	Rear propeller shaft		1	1	7.82	Steel, 40X
2	0705-02	Propeller shaft flange		1	2	3.6	Steel, 45
3	0703-09	Propeller shaft flange	See unit 0700-00, item 14	1	4	2.7	Steel, 45

Unit 0706-00. Front Propeller Shaft Assy

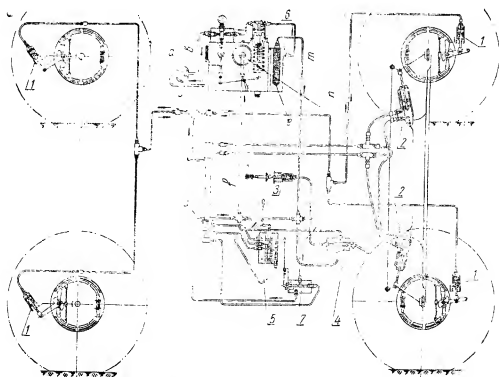
35

Unit 0706-00. Front Propeller Shaft Assy



Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	0706-01	Front propeller shaft		1	1	8.0	Steel, 40X
2	0705-02	Propeller shaft flange	See unit 0705-00, item 2	1	2	3.6	Steel, 45
3	0703-09	Propeller shaft flange	See unit 0700-00, item 14	1	4	2.7	Steel, 45

Unit 0900-00. Hydraulic Control Diagram

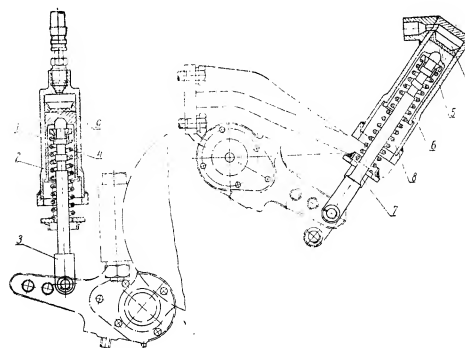


a. Pump, V-171 type. b. Pressure. c. Suction. d. Rotating Union. e. Felt Filter. f. Delivery Line. g. Drain Line. h. Drain Line Filter.

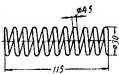

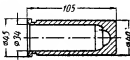
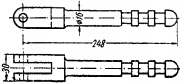


No. on diagram	Unit No.	Unit name	Shown on page
1	0901-00	Front and rear wheel hydraulic brake cylinders	37
2	0905-00	Right and left Excavator swinging cylinders installation	39
3	0906-00	Transmission gear shifting control	42
4	0907A-00	Transmission gear shifting slide-valve control	44
5	0908-00	Excavator swinging slide-valve	45
6	0709-00* 0918-00**	Accumulator	46
7	0911-00	Front and rear wheel brake slide-valves	48

* Installed on Excavators from No. 1 to No. 527 inclusive.
 ** Installed on Excavators from No. 528 onward.

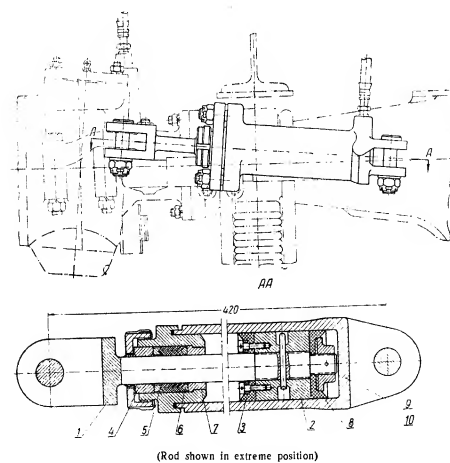
Unit 0901-00. Front and Rear Wheel Hydraulic Brake Cylinders

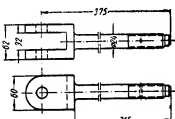


Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	09011-01	Front wheel cylinder		2	2	1.33	Steel
2	0901-01	Front wheel cylinder piston		2	2	0.345	Steel, 3
3	0901-02	Piston stem		2	2	0.42	Steel, 45


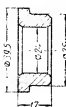

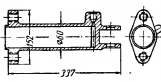
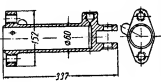
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
4	0901-03	Piston spring		2	2	0.09	П-11
5	09013-00	Rear wheel cylinder		2	2	2.05	Steel
6	0901-06	Rear wheel cylinder piston		2	2	0.36	Steel, 3
7	0901-07	Piston stem		2	2	0.42	Steel, 45
8	0901-08	Piston spring		2	2	0.12	П-11
9	ЭКС-154-1	Cylinder collar		4	5	0.02	Oil-resistant rubber

Unit 0905-00. Right and Left Excavator Swinging Cylinders Installation



Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	0905-01A	Piston stem		1	2	2.4	Steel, 40X

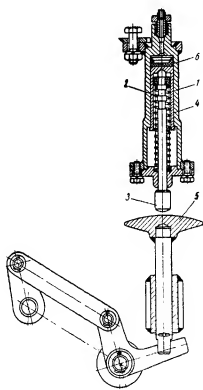
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
2	0905-02	Cylinder piston		1	2	0.9	Steel, 5
3	0903-03	Cylinder collar		1	2	0.03	Oil resistant rubber
4	0905-06	Packing sleeve		1	2	0.132	Bronze, АЖ 9-4
5	0906-11	Release ring		1	2	0.025	Bronze, АЖ 9-4

Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
6	0905-12	Pressure ring		1	2	0.025	Bronze, АЖ 9-4
7	0905-15	Packing sleeve		1	2	0.072	Bronze, АЖ 9-4
8	0005-17	Cylinder collar		1	2	0.03	Oil-resistant rubber
9	0905-20	Left cylinder		1	1	6.5	Steel, 25Л III
10	0905-21	Right cylinder		1	1	6.1	Steel, 25Л III

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9-255 Excavator

Unit 0906-00. Transmission Gear Shifting Control



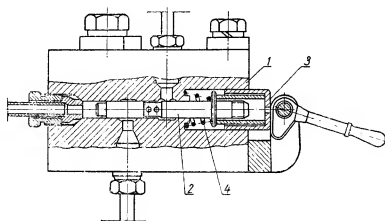
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	0906-01	Cylinder piston		1	1	0.65	Steel, 3
2	0906-02	Shifting mechanism spring		1	1	0.2	П-11

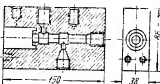
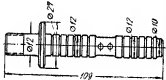


Unit 0906-00. Transmission Gear Shifting Control

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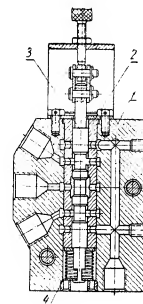
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
3	0906-03	Piston stem		1	1	0.41	Steel, 45
4	0906-01	Cylinder housing		1	1	3.44	Steel, 45
5	09062-10	Tappet, assy		1	1	3.66	Steel
6	3NC-154-1	Collar	See unit 0901-00, item 9	1	5	0.02	—

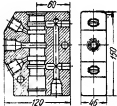
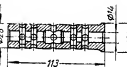
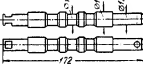

Unit 0907A-00. Transmission Gear Shifting Slide-Valve Control



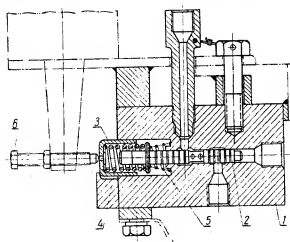
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	0907-01-A	Slide-valve housing		1	1	3.1	Gray cast iron, 21-40
2	0911-02	Shifting mechanism, slide-valve		1	1	0.08	Steel, 20
3	0911-04	Shifting mechanism cup		1	1	0.07	Steel, 3
4	0911-03	Thrust spring		1	1	0.007	II-II

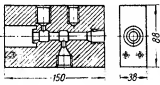

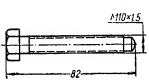
Unit 0908-09. Excavator Swinging Slide-Valve



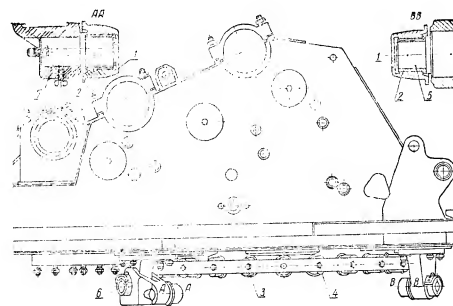
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per machine		Part weight, kg	Material grade
				unit			
1	0908-01	Slide-valve housing		1	1	2.5	Steel 3
2	0908-02	Slide-valve sleeve		1	1	0.39	Steel 45
3	0908-03	Swinging mechanism slide-valve		1	1	0.15	Steel, 20
4	0908-04	Slide-valve spring		1	1	0.02	П-II

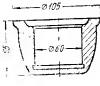

Unit 0911-00. Front and Rear Wheel Brake Slide-Valves



Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	0911-01	Slide-valve housing		1	1	3.1	Gray cast iron, 21-40
2	0911-02	Brake slide-valve	See unit 0907A-00, item 2	1	1	0.08	Steel, 20
3	0911-04	Brake slide-valve cup	See unit 0907A-00, item 3	1	1	0.07	Steel, 3
4	0911-05	Adjusting spring		1	1	0.037	II-II
5	0911-06	Thrust spring	See unit 0907A-00, item 4	1	1	0.007	II-II
6	0911-08	Adjusting screw		1	1	0.055	Steel, 5



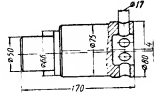
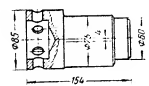

Unit 1100A-00. Turntable



Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	1102-04	Catch roller		3	3	1.92	Steel, 40X
2	1102-06	Catch roller bushing		3	3	0.35	Bronze, A.K. 8-4

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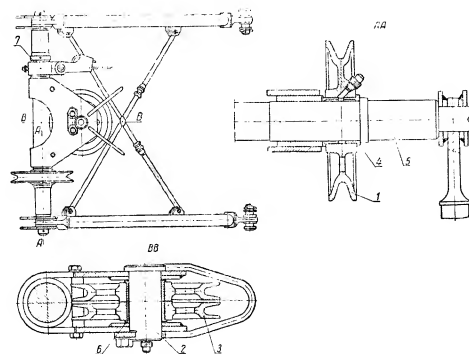
9-255 Excavator

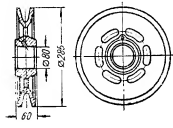
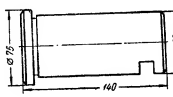
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
3	1105-01	Shell roller		24	24	3.5	Steel, 40X
4	1105-02	Roller pin		24	24	0.67	Steel, 45
5	1103-02	Roller pin		1	1	4.91	Steel, 35X
6	1102-03	Crosspiece pin		2	2	2.91	Steel, 45
7	1102-05	Roller pin		2	2	2.91	Steel, 35X

Unit 1200-00, Boom-Hanging Gantry

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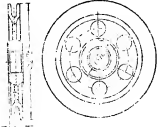

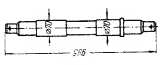
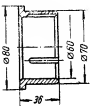
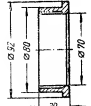
Unit 1200-00, Boom-Hanging Gantry



Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	1200-06	Slide block		1	2	8.7	Steel, 35X 111
2	1201-01	Block axle		1	1	3.1	Steel, 5

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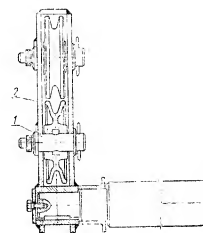
9-255 Excavator

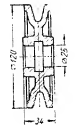
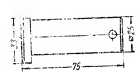
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
3	1202-01	Gantry block		2	2	5.4	Steel, 35/I 111
4	1200-05	Bushing		2	2	0.36	Bronze, AJK 9-4
5	1200-09	Gantry axle		1	1	25.6	Steel, 35X
6	1202-02	Bushing		2	2	0.28	Bronze, AJK 9-4
7	1200-07	Bushing		2	2	0.36	Bronze, AJK 9-4

Unit 1903-00. Dipper-Stick Axle

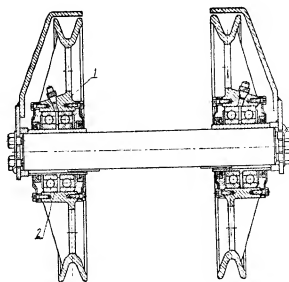
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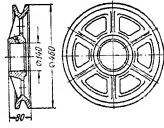
Unit 1903-00. Dipper-Stick Axle

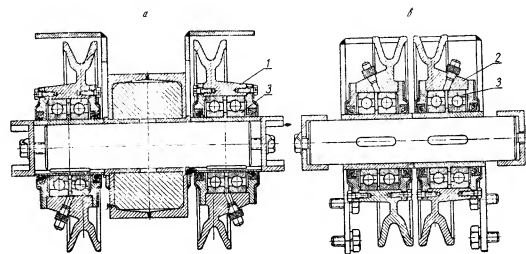


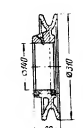
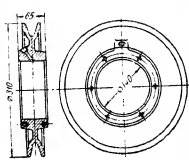
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	54202-01	Dipper-stick block		2	2	1.2	Steel, 35/I 111
2	1903-05	Block axle		2	2	0.24	Steel, 5

Unit 2101-00, Pull Blocks

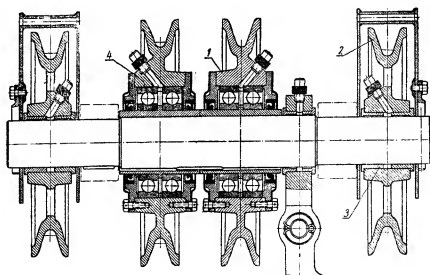


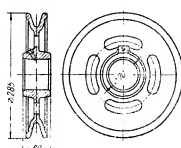
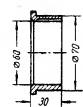
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	1902-02	Pull block		2	2	16.92	Steel, 30T1
2	No. 216	Ball bearing 80 x 140 x 26	—	4	—	1.38	—

Unit 2002-00, Straight Shovel Hoisting Blocks
Unit 2102-00, Back Shovel Hoisting Blocksa. Back Shovel Block Installation
b. Straight Shovel Block Installation

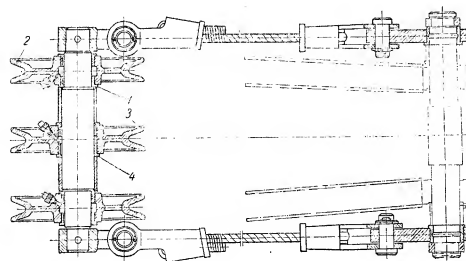
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	2102-03	Hoisting block		2	2	11.04	Steel, 30T1
2	2501-04	Hoisting block		2	4	11.04	Steel, 35T1 III
3	No. 216	Ball bearing 80 x 140 x 26	—	4	—	1.38	—

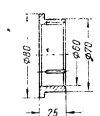
Unit 2501-00. Head Sheaves



Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	2501-04	Head sheave	See unit 2102-00, item 2	2	4	11.04	Steel, 35/1 III
2	2501-08	Head sheave		2	4	7.83	Steel, 35/1 III
3	2501-13	Head sheave bushing		4	4	0.28	Bronze, AK 9-4
4	No. 216	Ball bearing 80x140x26	—	4	—	1.38	—

Unit 2800-00A. Six-Time Boom Tackle

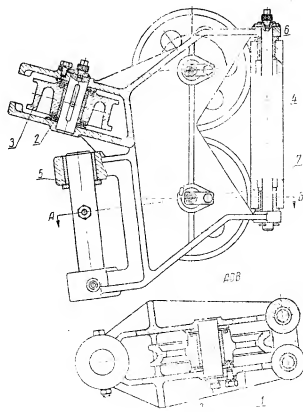


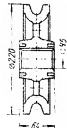
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	2800-02	Block bushing		4	4	0.2	Bronze, AK 9-4
2	2501-08	Tackle block	See unit 2501-00, item 2	2	4	7.83	Steel, 35/1 III
3	1200-06	Tackle block	See unit 1200-00, item 1	1	2	8.7	Steel, 35/1 III
4	1200-07	Block bushing	See unit 1200-00, item 7	2	2	0.36	—

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9-255 Excavator

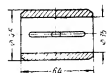
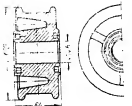


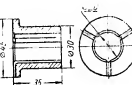
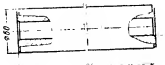
Unit 3000B-00, Dragline Pointer



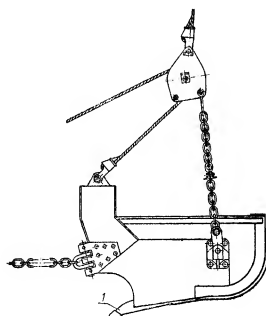
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per unit	Part weight, kg	Material, grade
1	3000A-03	Vertical block		2	2	7.35 Steel, 35T 111

Unit 3000B-00, Dragline Pointer

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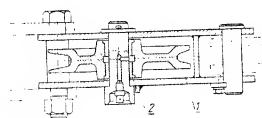
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per unit	Part weight, kg	Material, grade
2	3000A-04	Vertical and horizontal blocks bushing		4	4	0.25 Bronze, АЖ 9-4
3	3000A-05	Horizontal block		2	2	6.21 Steel, 3T, 7
4	3000A-06	Roller axle		2	2	0.8 Steel, 5
5	3000A-07	Pointer bushing		2	2	0.3 Bronze, АЖ 9-4
6	3000-13A	Roller sleeve		4	4	0.08 Gray cast iron, 21-40
7	3000-15A	Guide roller		2	2	1.9 Steel, 5

Unit 3100-00, 0.35 cu. m Dragline Bucket



Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	3101-07	Bucket tooth		4	4	4.2	Steel, 3


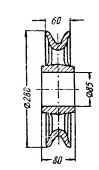
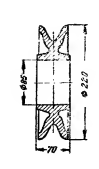

Unit 3103-00, Tilting Block Assy



Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	3103-01	Tilting block		1	1	5.5	Steel, 30T.1
2	3103-04	Block sleeve		2	2	0.135	Steel, 6

66

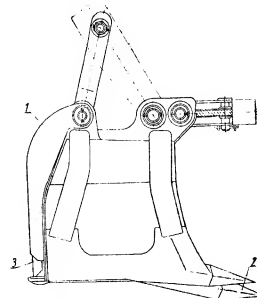
9-255 Excavator

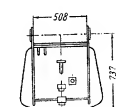
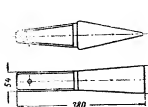
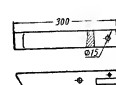
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
8	32-0-19	Middle bushing		2	2	1.2	Bronze, AK 9-4
9	3200-10	Block		2	2	14	Steel, 30X111
10	3200-11	Block shell		1	1	8.987	Steel, 30X111
11	3200-12	Block bushing		2	2	1.3	Bronze, AK 9-4

Unit 4600-00. 0.25 cu. m Bucket

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Unit 4600-00. 0.25 cu. m Bucket



Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	46021-00	Bucket bottom		1	1	52.2	Steel
2	4600-01	Bucket tooth		4	4	9.5	Steel, 25X111
3	4602-01A	Bottom latch		1	1	3.7	Steel, 5

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V/O "MACHINOEXPORT"

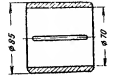



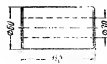

Smolenskaya Sennaya Ploshchad, 32-34 Moscow, G-200

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MACHINOEXPORT Moscow

Vneshtorgizdat. Order No. 727/1237


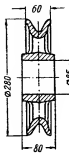
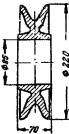
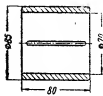
Unit 3600-00. 0.35 cu. m Clamshell

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Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
2	3200-13	Block bushing		1	1	1.0	Bronze, AK 9-4
3	3200-14	Hanger axle		1	1	12.3	Steel, 5
4	3200-15	Bottom guide roller		1	1	5.3	Gray cast iron, 15-32
5	3200-16	Guide roller axle		1	1	1.72	Steel, 5
6	3200-17	Top guide roller		2	2	1.4	Gray cast iron, 15-32
7	3200-18	Top guide roller axle		2	2	0.1	Steel, 5

66

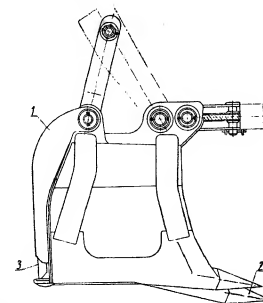
9-255 Excavator

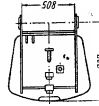
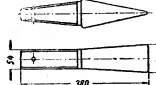
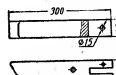
Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
8	32-0-19	Middle bushing		2	2	1.2	Bronze, AK 9-4
9	3200-10	Block		2	2	14	Steel, 35J1 III
10	3200-11	Block shell		1	1	8.987	Steel, 35J1 III
11	3200-12	Block bushing		2	2	1.3	Bronze, AK 9-4

Unit 4600-00. 0.25 cu. m Bucket

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Unit 4600-00. 0.25 cu. m Bucket



Item number on drawing	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material, grade
				unit	machine		
1	46021-00	Bucket bottom		1	1	52.2	Steel
2	4600-01	Bucket tooth		4	4	9.5	Steel, 25J1 III
3	4602-01 A	Bottom latch		1	1	3.7	Steel, 5

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